NOVEMBER/DECEMBER 2023

23PCS13 — PYTHON PROGRAMMING

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Why Python is said to be an interpreted language?
2. Differentiate between append() and extend() methods in List.
3. What are the two types of Scope in Python?
4. What is the role of Decorators?
5. How do you use command line arguments to give input to the program?
6. Compare the Modules and Classes in Python.
7. Give an example of opening a binary file.
8. Write the different modes to open a File in Python.
9. What is Redis used for in Python?
10. Define the term Socket.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Outline the salient features of Python programming.

Or

(b) Write a brief note on Dictionaries in Python.

12. (a) Explain the user-defined function in Python.

Or

(b) What is Exception? Explain the creation of user exception with an example.

13. (a) Explain the two types of Python modules.

Or

(b) What are the advantages and disadvantages of Duck Typing?

14. (a) Write a Python program for counting the particular word occurrences in a data file.

Or

(b) Prepare the steps for making connection with MySQL database.

15. (a) Write a Python program to display calendar of the given month and year.

Or

(b) Write a brief note on Publish-Subscribe Model.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the string handling functions in Python.

17. Discuss the conditional control statements in Python.

18. What is Inheritance? Explain the concept of overriding methods with an example.

19. Evaluate the role of Web Client and Web Server.

20. Develop an application in Python for implementing multithreading.

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